

## ROWG-9 Summary

14-15 March 2017

Texas A&M University-Galveston, Texas

The 9<sup>th</sup> ROWG Meeting was held at Texas A&M University-Galveston. Our hosts were IOOS partners from Texas A&M University-College Station. There were 32 attendees from six countries and are listed in the appendix. Meeting presentations are posted at rowg.org. (NOTE: ROWG.org is a wiki so registration is required and is moderated. Therefore, one's access will not be immediate).

The meeting opened with a representative from each institution giving a short presentation about their HF radar network, operations and research. This was followed by detailed discussions of the topics listed in the agenda (appended to this document)

The second day of the meeting began with a trip to the TAMU CODAR SeaSonde 5 MHz radar located at Rollover Pass. This radar is housed in a trailer for rapid relocation in the event of a major tropical storm. Unfortunately, highway traffic delayed us for two hours which prevented us from covering all of the topics on the afternoon agenda.

Apart from the ROWG meeting, CODAR Ocean Sensors held a workshop for its customers in a nearby hotel on the 16<sup>th</sup>.



The ROWG attendees on board the NOAA research vessel *Manta* (taken by Ed Romero-UCSB)

## **DRAFT Agenda ROWG-2017**

**14-15 March 2017**

**Texas A&M University – Galveston**

-----

### **TUESDAY 14 MARCH 2017**

**0800-0830 Coffee/tea, snacks; networking**

**0830-0840 Introduction to ROWG, Logistics** (Harlan & TAMU Rep)

#### **0840-0910 Attendee Introductions**

We will be doing introductions a little differently this year. Rather than just a few seconds from every attendee that gives their name/affiliation, we will ask one representative from each network to describe their network (e.g. number of radars, type(s) of radars, age of their network, applications, and institutions involved and specific unique features of their network). Additionally, the representative may show one or two slides. **So, please come prepared!**

We'll devote 30 minutes to this introduction process. There will be about 20 separate networks represented at this year's meeting so that will give each network up to 1.5 minutes. Some networks will require much less than 1.5 minutes but others may need a little more. In any case, at 2 minutes, we'll have to go to the next person.

#### **0915-1130 Oral Presentations (25 minutes; 5 minutes Q&A)**

0915 – 0945 Overview of the Texas High Frequency Radar Network (Kerri Whilden, TAMU)

0945 – 1015 Radial Velocity Quality Control (Brian Emery, Univ. California Santa Barbara)

#### **1015-1030 Coffee Break**

1030 – 1100 HF radar activity in Europe (Lorenzo Corgnati, ISMAR, Italy)

1100 – 1130 Realtime QC of radar data (Hugh Roarty, Rutgers Univ, MARACOOS)

1130 – 1140 Do-it-yourself hard case for APM antenna whips (Kevin Barlett, Ocean Networks Canada)

#### **1140 – 1300 Poster Session (will extend through the Lunch Break)**

Posters can be on display throughout the meeting.

#### **1300 – 1630 Discussion Topics**

Each discussion topic will be led by a volunteer who may present additional information. The discussions will allow for anyone to show slides pertaining to the topic.

1300-1400 Diagnostics and Downtime Reporting Tools (Joe Chen, Lisa Hazard/Tom Cook, Scripps)

1400-1415 QARTOD & Range Series File Archiving Updates (Roarty, Harlan)

**1415-1430 Coffee Break**

1430 – 1530 How to handle big data sets (practical aspects) (Cook, Updyke)

What's on GitHub for HF Radar? (Teresa Updyke)

ROWG HF Radar Wiki on Best Practices

1530- 1630 The state of radial metrics (Emery, Cook, Kirincich)

1630- 1700 Logistics for the Wednesday Morning Radar Site Visit

Planning for Wednesday afternoon Topics

---

**WEDNESDAY 15 March 2017**

**TAMU Radar Site Visit:** In addition to seeing this new site, we will also be using a quadcopter to do an antenna pattern measurement using the UCSB-provided transmit signal source. Don't miss it!

**0830 Meet at Wal-Mart Parking lot, Northeast corner, at 6702 Seawall Blvd, Galveston**

**NOTE:** If you are planning to do the radar site visit, be sure to bring some sturdy shoes or boots. Also, you will want to wear long pants because of tall vegetation and insects. Insect repellent will be available or bring your own.

0845 – 1130 Travel to Site, Radar Site visit, Travel back to TAMU-G for Lunch

**1130-1300 Lunch Break**

**Poster Session Revisit**

**1330-1630 Discussions**

Hot Topics in Hardware: Antennas, Electronics, Infrastructure

Hot Topics in Applications: Search & Rescue, Spill Response, Harmful Algal Blooms

**1500-1515 Coffee Break**

**1515-1630 Discussions & Demos**

APMS via UAV (Romero)

Wave Software Setup for CODAR (Whelan, Parikh, Rector)

Wave Software Setup for WERA and/or LERA (TBD)

**1630 Meeting Wrap-up**

Kevin	Bartlett	kpb@uvic.ca	Ocean Networks Canada
Joseph	Chen	joechen@ucsd.edu	Scripps Institution of Oceanography
Tom	Cook	tmcook@ucsd.edu	SIO
Lorenzo	Corgnati	lorenzo.corgnati@sp.ismar.cnr.it	Institute of Marine Sciences - National Research
Andrew	Dancer	adancer@tamu.edu	Texas A&M University
Steven	DiMarco	sdimarco@tamu.edu	Texas A&M University
Brian	Emery	emery@msi.ucsb.edu	UCSB
Colin	Evans	colin.evans@upr.edu	CARICOOS
Ian Quino	FErnandez	iqdgf@hawaii.edu	SOEST PACIOOS UH Manoa
Doug	George	dgeorge@ucdavis.edu	Bodega Marine Lab, University of California Davis
Jack	Harlan	jack.harlan@noaa.gov	NOAA IOOS
Lisa	Hazard	lhazard@ucsd.edu	Scripps Institution of Oceanography
Eric	Joannes	eric@codar.com	Codar Ocean Sensors
Anthony	Kirincich	akirincich@whoi.edu	WHOI
Zoi	Kokkini	mar01045@mar.aegean.gr	University of the Aegean, dep. of Marine Sciences
Marcel	Losekoot	mlosekoot@ucdavis.edu	Ogs
Carlo	Mantovani	carlo.mantovani@cnr.it	University of California Davis
Kevin	Martin	Kevin.m.martin@usm.edu	Consiglio Nazionale delle Ricerche - Istituto di Scienze
			Univ. Southern Mississippi
Christian	Nygren	christian.nygren@tamu.edu	Texas A&M University
Mark	Otero	motero@ucsd.edu	Scripps Institution of Oceanography
Hardik	Parikh	hardik@codar.com	CODAR Ocean Sensors
Rachel	Potter	rapotter@alaska.edu	University of Alaska Fairbanks
Matthew	Ragan	mragan@usc.edu	University of Southern California
Bill	Rector	bill@codar.com	CODAR
Hugh	Roarty	hroarty@marine.rutgers.edu	Rutgers
Eduardo	Romero	eduardo.romero@ucsb.edu	UCSB
Teresa	Updyke	garner@ccpo.odu.edu	Old Dominion University
John	Walpert	walpert@gerg.tamu.edu	Texas A&M University - GERG
Chad	Whelan	chad@codar.com	Codar Ocean Sensors, Ltd
Kerri	Whilden	kwhilden@tamu.edu	Texas A&M University
Chi-Chuang	Wu	1111081@narlabs.org.tw	Taiwan Ocean Research Institute
Luz	Zarate	luzareli@tamu.edu	TAMU-College Station
Jamie Davis	Davis	<a href="mailto:j.davis@usm.edu">j.davis@usm.edu</a>	<a href="http://www.usm.edu">University of Southern Mississippi</a>

